Atty Dkt. No.: 06510223CON2 USSN: Unassigned

## **REMARKS**

Originally filed claims 1-9 have been cancelled and new claims 10-15 have been added to more distinctly point out and describe the invention disclosed in the application filed herewith.

This amendment is being filed with an Appendix of Pending Claims and a transmittal letter/fee sheet. In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that extensions or other relief is required and/or fees are due, applicants petition for any required relief including extensions of time and authorize the Commissioner to charge our Deposit Account No. 50-0815 for any fees due in connection with the filing of this document.

By:

Respectfully submitted,

Date: \_\_\_\_\_March 23, 2001\_\_\_\_\_

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## APPENDIX OF PENDING CLAIMS FOR: "SYNTHETIC COMPOUNDS AND COMPOSITIONS WITH ENHANCED CELL BINDING" FILED HEREWITH (MARCH 23, 2001)

- 10. (New) A therapeutic composition usable for tissue repair comprising:
- (a) a biologically compatible implant; and
- (b) a peptide associated with said implant, said peptide having cell binding which is enhanced with respect to collagen.
- 11. (New) The therapeutic composition of claim 10, wherein said biologically compatible implant comprises a polymeric hydrogel.
- 12. (New) The therapeutic composition of claim 10, wherein said peptide is selected from Gly-Thr-Pro-Gly-Pro-Gln-Gly-Ile-Ala-Gly-Gln-Arg-Gly-Val-Val (SEQ ID NO: 1), Gly-Pro-Gln-Gly-Ile-Ala-Gly-Gln-Arg (SEQ ID NO: 2), Gln-Gly-Ile-Ala-Gly-Gln (SEQ ID NO: 3), Gln-Gly-Ile-Ala-Gly-Gln-Arg (SEQ ID NO: 4), Phe-Gly-Ile-Ala-Gly-Phe (SEQ ID NO: 5), Gly-Ile-Ala-Gly-Gln (SEQ ID NO: 6), and Gln-Gly-Ala-Ile-Ala-Gln (SEQ ID NO: 7).
- 13. (New) A cartilage repair composition for treatment of arthritis, comprising a peptide with a domain that mimics the cell binding of collagen, said peptide exhibiting cell binding greater than that of collagen, said peptide being selected from Gly-Thr-Pro-Gly-Pro-Gln-Gly-Ile-Ala-Gly-Gln-Arg-Gly-Val-Val (SEQ ID NO: 1), Gly-Pro-Gln-Gly-Ile-Ala-Gly-Gln-Arg (SEQ ID NO: 2), Gln-Gly-Ile-Ala-Gly-Gln (SEQ ID NO: 3), Gln-Gly-Ile-Ala-Gly-Gln-Arg (SEQ ID NO: 4), Phe-Gly-Ile-Ala-Gly-Phe (SEQ ID NO: 5), Gly-Ile-Ala-Gly-Gln (SEQ ID NO: 6), and Gln-Gly-Ala-Ile-Ala-Gln (SEQ ID NO: 7).
  - 14. (New) A method for promoting osteogenic cell growth, comprising:
  - (a) providing particles of hydroxylapatite;
  - (b) coating said hydroxylapatite particles with a solution of a synthetic peptide that simulates the binding of collagen to cells;

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- (c) incorporating said particles into a biologically compatible gel; and
- (d) exposing said gel to cells.

15. (New) The method of claim 14, wherein said peptide used in said coating comprises a peptide selected from Gly-Thr-Pro-Gly-Pro-Gln-Gly-Ile-Ala-Gly-Gln-Arg-Gly-Val-Val (SEQ ID NO: 1), Gly-Pro-Gln-Gly-Ile-Ala-Gly-Gln-Arg (SEQ ID NO: 2), Gln-Gly-Ile-Ala-Gly-Gln (SEQ ID NO: 3), Gln-Gly-Ile-Ala-Gly-Gln-Arg (SEQ ID NO: 4), Phe-Gly-Ile-Ala-Gly-Phe (SEQ ID NO: 5), Gly-Ile-Ala-Gly-Gln (SEQ ID NO: 6), and Gln-Gly-Ala-Ile-Ala-Gln (SEQ ID NO: 7).